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### PATENT SPECIFICATION

1 432 615

(21) Application No. 17457/73 (22) Filed 11 April 1973 (31) Convention Application No. 243 359

(32) Filed 12 April 1972 in

(33) United States of America (US)

(44) Complete Specification published 22 April 1976

(51) INT CL2 G06F 15/20

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(52) Index at acceptance G4A 11C U



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### (54) TRUSS MANUFACTURING SYSTEM

We, AUTOMATED BUILDING COMPONENTS INC., a corporation of the State of Florida, United States of America, of 7525 NW 37th Avenue, Miami, Florida, United States of America, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The present invention is concerned with an automated and centralized system for designing and fabricating building components, in particular, wood trusses. Ready access may be had over conventional telephone lines to a central computer which maintains truss data in personalized files so that the necessary information for either bidding a job or actual construction is available to truss fabricators throughout the country.

In the past fifteen years, prefabricated roof trusses for many types of structures, including residential homes, have almost completely replaced on-site nailing procedures. These trusses are monoplane configurations and include structural joints formed with multi-toothed connector plates as first disclosed in United States Patent No. 2,877,520. The connector plates are pressed into the wood joints and form a rigid unitary structure eliminating the time and labor

previously expended in hand nailing each of the timbers in place.

Because of transportation costs, it is not economically feasible to truck the pre-assembled trusses completely across the country and, as a result, the trusses are pre-assembled at widely scattered locations throughout the United States and other parts of the world by what are known as truss fabricators. These fabricators are for the most part lumberyards and other relatively small business enterprises which cannot afford heavy investment in truss fabrication research and design. The problem is particularly aggravated by the fact that the fabricator is frequently called upon to bid jobs on very short notice and knowing full well that only a certain percentage of jobs bid upon will be awarded to him. Of course, those bids which are lost do not result in any compensation to the fabricator for the time and effort he has put into estimating the job and this loss must be made up in some other way if he is to stay in business.

The present invention is usable in a truss fabricating system and may make available to truss fabricators throughout the country the technological know-how and facilities of a large centralized organization. It supplies design, constructions, cost, and other data to the fabricator so that he may (1) quickly and accurately estimate a job without substantial expense so that his losses are minimized if the job is not awarded to him and (2) supplies data to him so that he may perform a job utilizing the latest and best design data and techniques from a large centralized facility.

According to the invention there is provided a method producing an engineering drawing of a truss, comprising the steps of electrically transmitting job data to a central computer from a remote user station, electrically receiving at said station from said computer computed truss manufacturing data including drawing information, converting said data to printed form, and combining said printed data with a blank having a drawing of at least a portion of a truss thereon to provide an engineering drawing.

Said blank preferably includes other indicia comprising identifying lines and spaces for dimensions and names, and such blank may be in the form of a transparent overlay arranged to overlie said printed data.

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	1,432,013	3
-	FIGURE 9 is a diagram showing typical trusses (including gable ends) which may be manufactured in accordance with the present invention; FIGURE 10A shows a Fink truss, FIGURE 10B a double W truss (Belgian truss), and FIGURE 10C a Howe truss	
	FIGURE 11A shows a full stud gable end, FIGURE 11B a triangle louver gable end, FIGURE 11C a rectangular louver gable end, FIGURE 11D a full	5
1	and FIGURE 11F a rectangular louver dropped gable end, FIGURE 12A shows a wedge cut better all the state of t	
•	FIGURE 13A shows a bottom chord splice locations at panel points for a Kingpost truss, FIGURE 13B for a Fink truss, FIGURE 13C for a Fan truss, FIGURE 13D for a Howe truss and FIGURE 13P	10
1	14B for unequal overhangs, FIGURE 14C for a left side spliced top chord; FIGURE 14D for a right side spliced top chord; FIGURE 14E for unequal top	15
20	of different lengths;  FIGURES 15A, 15B, and 15C show bottom about 150 and 15C show bottom 150 and 150 and 15C show bottom 150 and 15C show bottom 150 and 15C show bottom 150 and 15C show bott	
25	FIGURE 16A shows a blank truss design input form; FIGURE 16B shows a typically completed truss design input form; FIGURE 17 shows a transparent overlay for	20
	FIGURE 18 shows a typical "Teletype" readout from the central computer for use with the overlay of FIGURE 17; and FIGURE 19 shows the completed engineering drawing produced by combining the overlay of FIGURE 17 with the "Teletype" readout of FIGURE 18.	25
30	Referring to the drawings, the system of the described embodiment is generally indicated at 10 in FIGURE 1. At 12 is a rough graphical representation of the continental United States showing a large centrally located digital computer 14 in Kansas City. Missouri The computer 14 in the computer 15 i	30
35	data transmission line 20 to a truss service facility 22 located in Charlottesville, Virginia, and by a second high speed data transmission line 24 to a second truss service facility 26 located at assigned based at a second truss	, 35
40	to individual fabricators 30 scattered throughout the country. One such fabricator 32, who by way of example only may be located in Milwaukee, Wisconsin, is illustrated as connected through a local explorated in Milwaukee, wisconsin, is	40
•	computer. The fabricator 32 is illustrated as having a truss design input form 40.	
. 45	a conventional telephone line 28 to the central computer 14. The user terminal 30 is connected through is connected through a communication computer 31 located at the site of the main computer 14. By way of example only the communication	45
50	Control Data Corporation 6400 digital computers. The connection over telephone line 28 may be at frequencies of 110, 150 or 300 Baud using the standard ASCII "Teletype" code. The "Teletype" terminal 30 manufactures and the standard ascil	50
. 55	In the computer 14, a plurality of user files 27, and 5, and 1, a	55
	In the computer 14, a plurality of user files 37, one for each of the fabricator terminals 30, and a plurality of truss data files 39, again one for each user and corresponding to the respective user files 37. Also stored in the computer is the principal truss fabrication program 42 which is used in conjunction with the user files 37 and truss data files 39 to produce the desired in	
60	fabricators. Other portions of the computer include an output file 44 for supplying messages and accounting data to the Charlottesville, Virginia, terminal 22 and/or the Miami, Florida, terminal 26 a user's output file 46 and a returninal 22 and/or	60
65	file 48 for supplying drawing information to the Miami, Florida, terminal 26 so that sealed drawings may be prepared in Miami and forwarded by mail to the fabricator.	
•	· · · · · · · · · · · · · · · · · · ·	65

### TABLE I.

1	SAW SET-UP EFFICENCY FACTOR	1.00
2	SAW RUN EFFICIENCY FACTOR	1.00
3	FAB SET-UP EFFICIENCY FACTOR	1.00
4	FAB RUN EFFICIENCY FACTOR	1.00
5	GE FAB EFFICIENCY FACTOR	1.00
6	SAW ØUTPUT FORMAT OPTIØN	0.
7	BURDEN RATE	2.00
8	SAW SET LABOR RATE	3.50
9	SAW RUN LABOR RATE	3.50
10	FAB SET LABOR RATE	3.40
11	FAB RUN LABØR RATE	3.30
12	SALES TAX RATE (PER-CENT)	4.00
13	ZERØ ELE ØF ALPH. MARK-UP CØDE	4.00
14	MIN DELIVERY CHARGE	25.00
15	G.E. PLATE COST/VERT.	.10
16	DELIVERY MILEAGE RATE I	.55
17	DELIVERY MILEAGE RATE 2	.65
18	DĔLIVERY MILEAGE RATE 3	.75
19	FIRST CHØICE PLATE TYPE	20.00
20	ALTERNATE PLATE TYPE	40.00
21	L FACTØR FØR DEFLECTIØN	240.00
22	TYPE ØF CUTTING EQUIPMENT	2.00
23	SINGLE—DØUBLE CUT WEBS	2.00
24	GE VERT PLATE GA.—SIZE	723.40
25	GE VERT. SPACING INCHES	24.00
26	TC LUMBER SPECIES—GRADE CODE	204.08
27	BC LUMBER SPECIES—GRADE ODE	204.08
28	WEB LUMBER SPECIES—GRADE CODE	204.02
29	VERT LUMBER SPECIES—GRADE CODE	204.02
30	NUMBER OF ITEMS TO APPLY S TAX	2.00
31	SAW I POSITIVE TRAVEL 16THS	0.

	TABLE I (Continued)	
63	3 2 × 3 EXACT LUMBER WIDTH	2.50
64	4 2 × 4 EXACT LUMBER WIDTH ·	3.50
65	5	0.
66	5 2 × 6 EXACT LUMBER WIDTH	5.50
67	7	0.
68	3 2 × 8 EXACT LUMBER WIDTH	7.25
69		0.
70	2 × 10 EXACT LUMBER WIDTH	9.25
71		0.
72	2 2 x 12 EXACT LUMBER WIDTH	11.25
73	GN—20 PER-CENT LIST PRICE	1.00
74	GN—80 PER-CENT LIST PRICE	1.00

The second section of the user's file is a listing of the lumber the user had in stock (or is readily available to him) for the manufacture of trusses. The different species, grades, thicknesses, widths, and lengths are coded prior to putting them into the file. When so desired, the user may request a printout of his lumber file. In the following Table II is a printout of such a file as received through a "Teletype" unit:

1.00

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	TABLE II.
2 x 4 -	1 @ \$ 77.00 NØ. 3 KD SØ.PINE
2 × 4 –	1 @ \$ 77.00 NØ.2 MG MG SØ.PINE
2 × 4 –	1 @ \$ 77.00 NØ.1 KD SØ.PINE
2 × 4 –	2 @ \$ 77.00 NØ.3 KD SØ.PINE
2 × 4 –	2 @ \$ 77.00 NØ.2 MG KD SØ.PINE
2 × 4 –	2 @ \$ 77.00 NØ.1 KD SØ.PINE
2 × 4 –	3 @ \$ 77.00 NØ.3 KD SØ.PINE
2 x 4 -	3 @ \$ 77.00 NØ.2 MG KD SØ.PINE
2 x 4 -	3 @ \$ 77.00 NO.1 KD SO.PINE
2 x 4 -	4 @ \$ 77.00 NØ.3 KD SØ.PINE
2 × 4 –	4 @ \$ 77.00 NO.2 MG KD SO.PINE
2 x 4 —	4 @ \$ 77.00 NØ.1 KD SØ.PINE
	5 @ \$ 77.00 NØ.3 KD SØ.PINE
	5 @ \$ 77.00 NØ.2 MG KD SØ.PINE

75 GN-40 PER-CENT LIST PRICE

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#### TABLE II (Continued)

- 2 × 6 5 @ \$126.00 NØ.2 MG KD SØ.PINE
- $2 \times 6 6$  @ \$126.00 NØ.2 MG KD SØ.PINE
- $2 \times 6 7$  @ \$131.00 NO.2 MG KD SO.PINE
- 2 × 6 8 @ \$126.00 NØ.2 MG KD SØ.PINE
- 2 × 6 10 @ \$125.00 NØ.2 MG KD SØ.PINE
- $2 \times 6 10$  @ \$140.00 NØ.1 KD SØ.PINE
- $2 \times 6 12$  @ \$126.00 NØ.2 MG KD SØ.PINE
- 2 × 6 12 @ \$142.00 NØ.1 KD SØ.PINE
- $2 \times 6 14$  @ \$131.00 NØ.2 MG KD SØ.PINE
- 2 × 6 14 @ \$142.00 NØ.1 KD SØ.PINE
- $2 \times 6 16$  @ \$136.00 NØ.2 MG KD SØ.PINE
- 2 × 6 16 @ \$152.00 NØ.1 KD SØ.PINE
- 2 × 6 18 @ \$145.00 NØ.2 MG KD SØ.PINE
- 2 x 6 18 @ \$167.00 NØ.1 KD SØ.PINE
- $2 \times 6 20$  @ \$156.00 NØ.2 MG KD SØ.PINE
- 2 × 6 20 @ \$172.00 NØ.1 KD SØ.PINE
- $2 \times 8 1$  @ \$122.00 NØ.2 MG KD SØ.PINE
- $2 \times 8 2$  @ \$122.00 NØ.2 MG KD SØ.PINE
- $2 \times 8 3$  @ \$122.00 NØ.2 MG KD SØ.PINE
- $2 \times 8 4$  @ \$122.00 NO.2 MG KD SO.PINE
- $2 \times 8 5$  @ \$122.00 NØ.2 MG KD SØ.PINE
- $2 \times 8 6$  @ \$122.00 NØ.2 MG KD SØ.PINE
- $2 \times 8 7$  @ \$122.00 NØ.2 MG KG SØ.PINE
- $2 \times 8 8$  @ \$122.00 NØ.2 MG KD SØ.PINE
- $2 \times 8 10$  @ \$122.00 NØ.2 MG KD SØ.PINE
- $2 \times 8 12$  @ \$140.00 NØ.2 MG KD SØ.PINE
- $2 \times 8 14$  @ \$139.00 NØ.2 MG KD SØ.PINE
- $2 \times 8 16$  @ \$154.00 NØ.2 MG KD SØ.PINE
- $2 \times 8 18$  @ \$174.00 NØ.2 MG KD SØ.PINE
- $2 \times 8 20$  @ \$184.00 NØ.2 MG KD SØ.PINE

Another preferred feature of the system of the present invention is that it allows the user or fabricator to determine the cost of each piece of lumber in his inventory. Following in Table III is a sample of such a list with each piece calculated to the nearest one cent:

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#### TABLE III (Continued)

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2 x 4 - 14 @ $145.00 = 1.35 NØ.1 KD SØ.PINE
  2 \times 4 - 16 @ $135.00 = 1.44 NØ.3 KD SØ.PINE
 2 \times 4 - 16 @ $135.00 = 1.44 \text{ NØ.2 MG KD SØ.PINE}
 2 \times 4 - 16 @ $155.00 = 1.65 \text{ NØ.1 KD SØ.PINE}
 2 \times 4 - 18 @ $150.00 = 1.80 \text{ NØ.2 MG KD SØ.PINE}
 2 \times 4 - 18 @ $170.00 = 2.04 NØ.1 KD SØ.PINE
 2 \times 4 - 20 @ $155.00 = 2.07 NØ.2 MG KD SØ.PINE
 2 \times 4 - 20 @ $175.00 = 2.33 NØ.1 KD SØ.PINE
 2 \times 6 - 1 @ $110.00 = .11 NØ.2 MG.KD SØ.PINE
 2 \times 6 - 2 @ $110.00 = .22 NØ.2 MG KD SØ.PINE
2 \times 6 - 3 @ $110.00 = .33 NØ.2 MG KD SØ.PINE
2 \times 6 - 4 @ $110.00 = .44 NØ.2 MG KD SØ.PINE
2 \times 6 - 5 @ \$110.00 = .55 \text{ NØ.2 MG KD SØ.PINE}
2 \times 6 - 6 @ \$110.00 = .66 NØ.2 MG KD SØ.PINE
2 \times 6 - 7 @ $110.00 = .77 NO.2 MG KD SO.PINE
2 \times 6 - 8 @ \$110.00 = .88 NØ.2 MG KD SØ.PINE
2 \times 6 - 10 @ $115.00 = 1.15 NØ.2 MG KD SØ.PINE
2 \times 6 - 12 @ $125.00 = 1.50 NØ.2 MG KD SØ.PINE
2 \times 6 - 14 @ $125.00 = 1.75 NØ.2 MG KD SØ.PINE
2 \times 6 - 16 @ $135.00 = 2.16 NØ.2 MG KD SØ.PINE
2 \times 6 - 18 @ $146.00 = 2.63 NØ.2 MG KD SØ.PINE
2 \times 6 - 20 @ $153.00 = 3.06 NØ.2 MG KD SØ.PINE
```

Referring again to TABLE I, items 1—5 in that table are efficiency factors which use standard precalculated times as the basis for comparisons. If the fabricator has made comprehensive studies and compared them against the standard times, the factors may be changed to reflect the efficiency of the various operations in his plant. The normal efficiency factors are 1.00, i.e., 100% of standard. When an operation is below the standard, the efficiency factor should be adjusted upward.

The SAW SET-UP EFFICIENCY FACTOR, listed as Item 1 in TABLE I, means that the computer has a listing of the cutting equipment the fabricator uses to cut truss members (in Item 22), and it also makes allowances for short runs and short members which are normally cut on a radial saw. The SAW RUN EFFICIENCY FACTOR (Item 2) uses standard predeveloped times for cutting truss members on the fabricator's equipment except that times are in man minutes and not in machine times. The FAR SET UP EFFICIENCY FACTOR

and not in machine times. The FAB SET-UP EFFICIENCY FACTOR (Item 3) lists times for setting up the jigs and the FAB RUN EFFICIENCY FACTOR (Item 4) represents predetermined truss fabrication times, again in man minutes. Item 5 in TABLE I, i.e., GE FAB EFFICIENCY FACTOR, takes into consideration the several variables which may affect the production times of the gable ends and Item

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acceptable to try to splice at all panel points. FIGURE 13E shows the code

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which is specified in the user's file unless a longer length is required. Then it will override the maximum length stated in the file and specify the stock length nearest to the optimum length. If a length is specified in the input sheet as it is in FIGURE 16B, the computer will use that length if possible making the joint either in the acceptable area or at a joint. If a length is specified which is too short, i.e., does not reach the panel point, the program will override it and use a length which is nearest to the optimum length. The shaded boxes in line 7 for the center bottom chord and the bottom chord are believed readily understood from the previous

In line 8, the first series of six boxes are white and must be filled in. If zeroes are stated, the computer will design and calculate the truss with a one member left top chord if the fabricator's inventory file includes the length required. If a length specified is shorter than the overall length of the left chord of the truss, the computer designs and calculates a two-member top chord for the left side of the

55

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description.

#### TABLE IV.

ABCØM/AUTØTRUSS

DES. NØ. 2675 A 71

DEMONSTRATION

08/27/71.A— 6

1 /

17 FI 4.50/12 25 FT 8 IN 0 SX 4/4

4 HEEL 12 IN 0 SX LEFT Ø.H 4 HEEL 12 IN 0 SX RIGHT Ø.H.

TPI FINK TRUSS

SPACING = 24 LUM.INCR. = 1.15 PLATE INCR. = 1.15

LL DL MC
TC 20 10 10 2 × 4 NØ.2 MG KD SØ.PINE
BC 0 10 8 2 × 4 NØ.2 MG KD SØ.PINE 31—4
33—0

#### RUN COMPLETE.

The first three lines in TABLE IV identify the job. The top line identifies it as being a truss design, line 2 lists the user's Design Number and identifying data, and the third line shows the date of the design and assignee's job number. Line 4 specifies 17 trusses, Fink type, 4.50 (41) on 12 slope (pitch), 25 ft. 8 inches, 0 5 5 sixteenths span with a 4 inch wide top chord and a 4 inch wide bottom chord. Lines 5 and 6 specify 4/16 inch butt cut at the heel of the bottom chord and 12 inch, 0 sixteenth inch overhangs on both left and right top chords. Line 7 shows a Fink truss design in accordance with TPI criteria and line 8 shows the truss spacing is 24 inches. The allowable stress increase for lumber is 1.15 (15%) and for the connector plates 1.15 (15%). Line 9 describes the criteria for the top chord of the truss. The live load is 20 psf, the dead load is 10 psf, and the moment coefficient is 10. The moment coefficient is the part of the TPI design criteria. It is of interest to engineers, 2 × 4 #2 MG (medium grained) KD (kiln dried) southern pine is to be used for the top chord. The 31—4 at the far right indicates that 31 feet, 4 inches is the maximum span in which this lumber can be used in trusses of this design 10 10 15 the maximum span in which this lumber can be used in trusses of this design, 15 loading and criteria. Line 10 describes the criteria for the bottom chord of the truss. There is no live load on the bottom chord, and the dead load is 10 psf. The moment coefficient is 8 and 2 x 4 MG KD southern pine is to be used in the bottom chords. The maximum span for which this lumber can be used in trusses of 20 20 the same design and criteria is 33 feet, 0 inches. This completes the information in this division. All this information is of interest to the engineer estimator and should be kept with the job file. TABLE V shows another section of the computer printout:

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the selling price to cover the cost of sales, general and administrative expenses and profit. This division of the output would probably be needed in the master file and in the Estimating Department and the Cost Accounting Department.

The printout shown in TABLE VI is for the description of the production

information:

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#### ABCOM/AUTOTRUSS

DESIGN REQUEST NØ. 2675 A 71 **DEMONSTRATION** 71/08/06.

17 FI 4.50/12 25 FT 8 IN 0 SX

4 HEEL 12 IN 0 SX LEFT Ø.H. 4 HEEL 12 IN 0 SX RIGHT Ø.H.

### \*\*\*\* LUMBER REQUISITION \*\*\*\*

34 2 x 4 - 16 TC A NØ.2 MG KD SØ.PINE

17 2 x 4 - 10 BC A NØ.2 MG KD SØ.PINE

17 2 x 4 - 16 BC B NØ.2 MG KD SØ.PINE

 $2 \times 4 - 7$  WEB A NØ.3 KD SØ.PINE

34 2 x 4 - 4 WEB B NØ.3 KD SØ.PINE

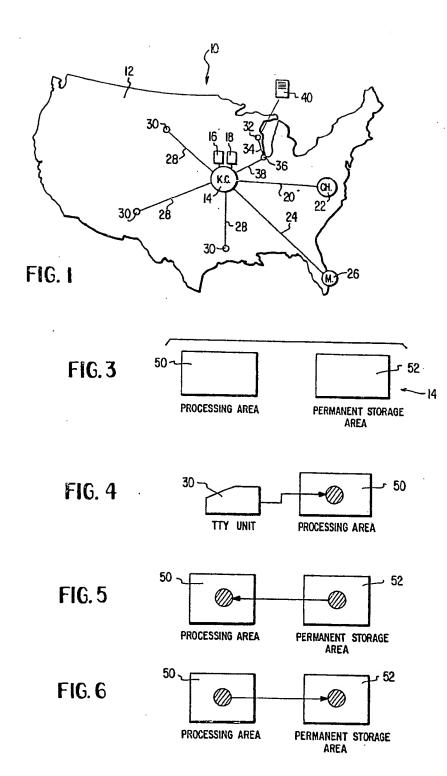
\*\*\*\* CUTTING BILLS \*\*\*\*

CUTTING SPECIFICATIONS

\*\* WEBS DØUBLE CUT \*\*

(continued)

(e) connector plate jig setup instructions.



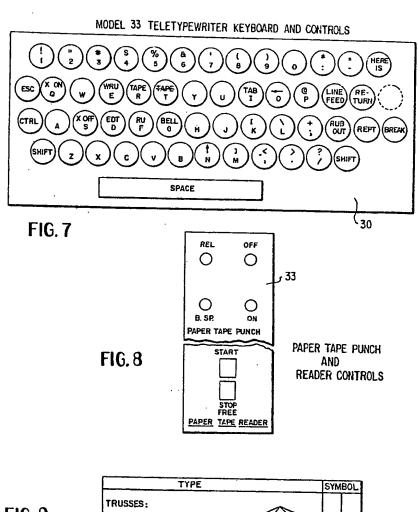
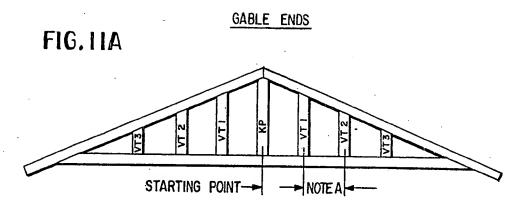
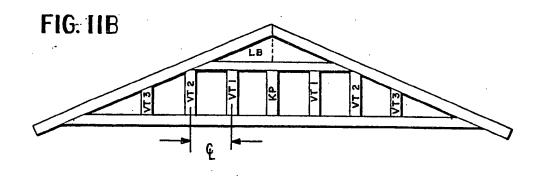


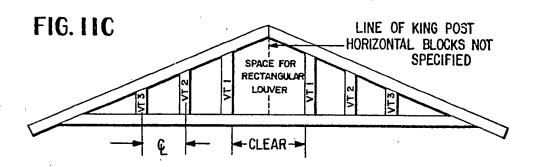
FIG. 9

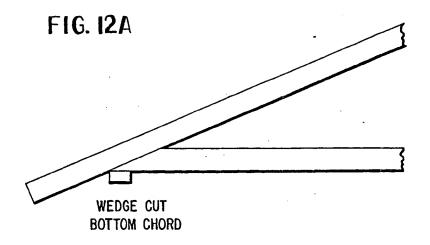
TYPE		SYM	BOL
TRUSSES:		$T^{-}$	
FINK		ŀF	1
HOWE		н	0
DOUBLE W (Beigion)		w	w
KING POST		K	Р
GABLE ENDS:		1	
FULL STUDS	Mill Mill	G	E
TRIANGLE LOUVER		L	В
RECTANGLE LOUVER		L	G
DROPPED GABLE ENDS:			1
FULL STUDS	<b>A</b> IIIIII	٥	E
TRIANGLE LOWER		D	В
RECTANGLE LOUVER		٩	G



NOTE A: SPACING OF CENTER TO CENTER DIMENSIONS OF VERTICALS FROM KING POST IS BASED ON SPECIFICATION GIVEN IN USER'S FILE







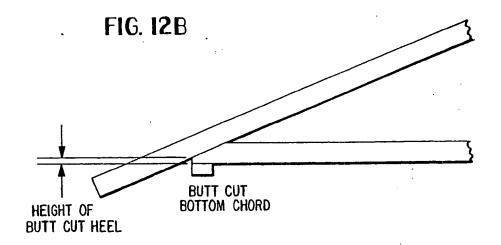


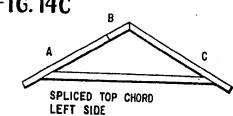


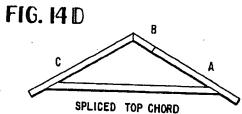
FIG. 14B





FIG. 14C



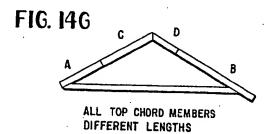


RIGHT SIDE

FIG. 14E UNEQUAL TOP CHORDS

UPPER MEMBERS EQUAL LENGTH

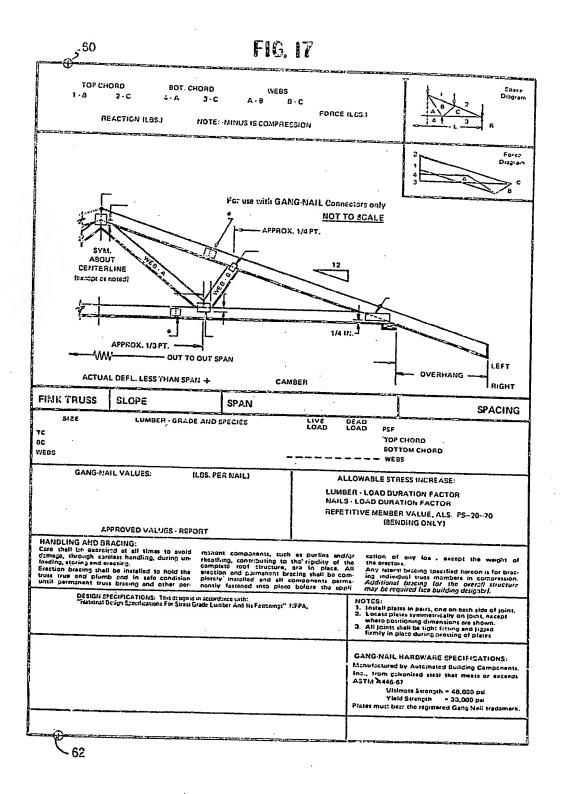
FIG. 14 F UNEQUAL TOP CHORDS LOWER MEMBERS EQUAL LENGTH



This drawing is a reproduction of the Original on a reduced scale. SHEET ||

## FIG. 16A

REQUEST NO.:	First digit of each line must be at left margin		Lin
	IDENTIFICATION		
<u></u>		6	1
			ļ
SALES TAX	TRUCK GANG-NAIL CONNECTORS		
& MARK-UP MILE	AGE TYPE FIRST CHOICE ALTERNATE SPACING	SAW TYPE ALT SALES TAX	Ċ
			Ç
DESIGN	TOP CHORD BOTTOM CHORD	STRESS INCREASE	
DRAWING . CODE	LOAD LOAD LOAD LOAD	CONNECTED ALLOWEDIE	
12 20		11. (1/4/1) Add 11/4	3
			9
QUANTITY TRUSS	SPAN OF TRUSS		
OF TRUSSES TYPE	FEET INCHES TEENTHS (PIT	PE GABLE END THOU- CHI SET UP FOR SANDS	
			A
		<u>,                                    </u>	t
LEFT SIDE OF TRUSS HEEL LE	FT OVERHANG		
CUT TEENTHS INC	CIV		
		40	
		· ·	Ċ
RIGHT SIDE OF TRUSS			
HEEL RIG	HT OVERHANG		
			3
			í
LEFT BOTTOM CHOR	and I see the see that the see	BOTTOM CHORD	•
FEET INCHES TE	SIX- ENTHS PEET INCHES TEENTHS	Lumber Specification Code	•
			7
	الملاسا الملسا الملسا		•:
LEFT TOP CHORD, LOWER N		ALTERNATE WEBS	
	SIX- ENTHS Lumber Specification Code	Lumber Specification Code	B
.			5
			2
RIGHT TOP CHORD. LOWER	MEMBER GANG-NAIL		
	SIX- ENTHS PLATE COSTS		
		S	1
		R	



This drawing is a reproduction of the Original on a reduced scale. SIJEET 15

